

CLAIMS

1. An alkaline storage battery having a positive electrode, a negative electrode, a separator, and an alkaline electrolyte,

wherein the separator comprises:

5 a nonwoven fabric made of a plurality of papermaking web layers arranged in laminated form, and

the separator satisfies the relation of $8.8 \leq A \times B \times C \leq 15.2$, where A is an area density (g/m^2), B is a specific surface area (m^2/g), and C is a thickness (mm).

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2. The alkaline storage battery according to claim 1,

wherein the nonwoven fabric forming the separator is composed of a plurality of papermaking web layers different in at least any one of the area density, the specific surface area, the thickness, and sulfonation degree.

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3. The alkaline storage battery according to claim 1 or 2,

wherein the liquid amount of the electrolyte is in a range of 3.0 g or more to 3.5 g or less per 1 Ah of theoretical capacity of the positive electrode.

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4. The alkaline storage battery according to any one of claims 1 to 3, wherein the separator is sulfonated to be hydrophilic by sulfuric anhydride.

5. The alkaline storage battery according to claim 4,

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wherein the papermaking web layers have at least two types of fibers different in sulfonation degree.

6. The alkaline storage battery according to any one of claims 1 to 5,

wherein each of the plurality of papermaking web layers contains split type compound fibers by 30 wt.% or more to 50 wt.% or less.

7. The alkaline storage battery according to claim 6,

5 wherein the split type compound fibers are composed of at least two types of fibers selected from among polypropylene, polyethylene, polystyrene, polymethyl pentene, and polybutylene.